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Supplemental Material

Assessment of the Probability of Autochthonous Transmission of Chikungunya Virus in Canada under Recent and Projected Climate Change

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Figure S1 Comparison between the bias-corrected data from CRCM5-CanESM2-RCP4.5 and CRCM5-CanESM2-RCP8.5 with data from other RCMs and their ensemble mean. **Figure S2** Risk categories for autochthonous CHIKV transmission by *Ae. albopictus* in Canada derived from combining the climatic suitability for CHIKV transmission potential (R₀) with the climatic suitability for the presence of *Ae. albopictus* (SIG index) using the 75th percentile value of R₀ distributed across temperature range 10°C to 40°C as the cut-off. **Figure S3** Risk maps for autochthonous CHIKV transmission in Canada based solely on CHIKV transmission potential (R₀) using the 75th percentile value of R₀ distributed across temperature range of 10°C to 40°C as the cut-off.

Figure S4 Duration in months where mean $R_0 > 1.0$ (mean monthly temperature between ≥ 22.8 °C and 33.6°C) in Canada based solely on CHIKV transmission potential (R_0) using the 75th percentile value of R_0 distributed across temperature range 10°C to 40°C as the cut-off.

Figure S5 Risk maps for autochthonous CHIKV transmission in Canada combining the climatic suitability for CHIKV transmission potential (R_0) with the climatic suitability for the presence of *Ae. albopictus* (SIG index) using the 75th percentile value of R_0 distributed across temperature range 10°C to 40°C as the cut-off.

Figure S6 Duration in months for potential autochthonous CHIKV transmission in Canada combining the climatic suitability for CHIKV transmission potential (R_0) with the climatic suitability for the presence of *Ae. albopictus* (SIG index) using the 75th percentile value of R_0 distributed across temperature range 10°C to 40°C as the cut-off.